We claim:

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- A method of identifying a preferred liver transplant donor, comprising determining in an individual the presence or absence of a preferred genotype at a
 polymorphic site, said preferred genotype associated with altered activity of a tumor necrosis factor, wherein the presence of said preferred genotype indicates that said individual is a preferred liver transplant donor.
- 2. The method of claim 1, further comprising 10 reporting the presence or absence of said preferred genotype.
 - 3. The method of claim 1, wherein said preferred genotype is associated with lower activity of said tumor necrosis factor.
 - 4. The method of claim 3, wherein said tumor necrosis factor is TNF- α .
 - 5. The method of claim 3, wherein said preferred genotype is associated with lower levels of said tumor necrosis factor.
- 20 6. The method of claim 5, wherein said tumor necrosis factor is $TNF-\alpha$.
 - 7. The method of claim 6, wherein said preferred genotype is TNF308.1.
- 8. The method of claim 1, wherein said polymorphic site is in a TNF- α regulatory region.

- 9. The method of claim 8, wherein said polymorphic site is in a TNF- α transcriptional regulatory region.
- 10. The method of claim 9, wherein said polymorphic site is in a TNF- α promoter region.
 - 11. The method of claim 1, wherein said polymorphic site is in a TNF- α coding region.
- 12. The method of claim-1, wherein said liver transplant donor is identified for transplantation into a hepatitis C virus infected patient.
 - 13. A method for selecting a preferred liver for transplantation, comprising the steps of:
 - (a) obtaining material from one or more potential liver donors;
- 15 (b) determining in said one or more potential liver donors the presence or absence of a preferred genotype at a polymorphic site, said preferred genotype associated with altered activity of a tumor necrosis factor; and
- 20 (c) harvesting a liver, or functional portion thereof, having a preferred genotype.
 - 14. The method of claim 13, further comprising the step of:
- (d) transplanting said liver, or functional 25 portion thereof, into a recipient.

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- The method of claim 13, wherein said preferred genotype is associated with lower activity of said tumor necrosis factor.
- The method of claim 15, wherein said tumor necrosis factor is $TNF-\alpha$.
 - The method of claim 15, wherein said preferred genotype is associated with lower levels of said tumor necrosis factor.
 - The method of claim 17, wherein said tumor necrosis factor is $TNF-\alpha$.
 - The method of claim 18, wherein said preferred genotype is TNF308.1.
 - The method of claim 13, wherein said polymorphic site is in a TNF- α regulatory region.
 - The method of claim 20, wherein said 21. polymorphic site is in a TNF- α transcriptional regulatory region.
 - The method of claim 21, wherein said polymorphic site is in a TNF- α promoter region.
- 20 The method of claim 13, wherein said polymorphic site is in a TNF- α coding region.
 - The method of claim 14, wherein said recipient is infected with hepatitis C virus.

- 25. A method for limiting the severity of recurrence of hepatitis C in a liver transplant recipient, comprising the steps of:
- (a) obtaining material from one or more5 potential liver donors;
 - (b) determining in said one or more potential liver donors the presence or absence of a preferred genotype at a polymorphic site, said preferred genotype associated with altered activity of a tumor necrosis ____ factor;
 - (c) harvesting a liver, or functional portion thereof, having a preferred genotype; and
 - (d) transplanting said liver, or functional portion thereof, into a recipient infected with hepatitis C virus.
 - 26. The method of claim 25, wherein said preferred genotype is associated with lower activity of said tumor necrosis factor.
- 27. The method of claim 26, wherein said tumor 20 necrosis factor is TNF- α .
 - 28. The method of claim 26, wherein said preferred genotype is associated with lower levels of said tumor necrosis factor.
- 29. The method of claim 28, wherein said tumor 25 necrosis factor is $TNF-\alpha\,.$

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- 30. The method of claim 29, wherein said preferred genotype is TNF308.1.
- 31. The method of claim 25, wherein said polymorphic site is in a TNF- α regulatory region.
- 5 32. The method of claim 31, wherein said polymorphic site is in a TNF- α transcriptional regulatory region.
 - 33. The method of claim 32, wherein said polymorphic site is in a TNF- α promoter region.
 - 34. The method of claim 25, wherein said polymorphic site is in a TNF- α coding region.

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